



# NDIA 2001 Vehicle Technologies Symposium

Intelligent Systems for the Objective Fleet

May 30, 2001

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Tank-automotive & Armaments COMmand

# *History*

- First Generation SmarTruck 1995
- Second Generation SmarTruck Contract Award August 2000
- Second Generation SmarTruck Unveiled at the Society of Automotive Engineers (SAE) 2001 World Congress



## *Purpose of SmarTruck*

- Provide the Army with a commercially based vehicle platform to test, integrate and showcase emerging intelligent vehicle technologies
- Develop strategies to modernize and equip the Army's Light Tactical Vehicle fleet with dual use technology
- Develop a vehicle electrical architecture for potential insertion into the Army's future light weight combat systems



## *Platform Specifications*

- Ford F-350 with extended crew cab
- 7.2 Liter Navistar Power Stroke Diesel V8
- Electronic 4Speed Automatic Transmission
- Extend bed with a specially designed ballistic cover
- Overall weight 11,000 lbs.
- Height 6' Width 8' (including mirrors) Length 22'



# *SmarTruck Current Capabilities*

Bullet  
Proof  
Glass

On-Board  
Diagnostics

Wireless  
Communication

Non-Lethal  
Weaponry

Night  
Vision

B.F. Goodrich  
Run Flat Tires

Touch  
Screen  
Display

Bomb  
Detection

Global  
Positioning  
System





# *SmarTruck Future Capabilities*

- Multi Data-Bus Electrical Architecture
  - J-1850
  - J-1708/1587
  - J-1939
  - IDB-CAN
  - MOST
  - IDB-M
  - Wireless Network



# *SmarTruck Future Capabilities*

- Voice Activation
- Alternative Propulsion System
- Collision Warning System
- Nuclear Biological and Chemical Detection
- QUADRASTEER™
- Robotic Reconnaissance Capabilities
- Video Teleconferencing



## *Media Exposure*

- ABC National News
- Time Magazine
- National Geographic TV
- Travel Channel
- CNN
- Popular Science Magazine



## *Agency Interest*

- US Army Special Operations
- Drug Enforcement Agency (DEA)
- US Marshal Service
- New York Port Authority
- US Border Patrol
- Sheriff Departments
- Diplomatic Security Core
- FBI



## *Collaboration Thrust Areas*

- Voice Activation System
- Alternative Propulsion
- Integrating Robotic Control
- Improving Bandwidth for Video



## *Contact Information*

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